

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently amended): A light treatment apparatus for generating a pattern of spots over a treatment area, comprising:

an optical module for generating an array of light beams, wherein the array is elongated along a sub-scan direction that is transverse to a main scan direction; [and]
a sub-scan module coupled to the optical module for dithering the array of light beams in the sub-scan direction; wherein, for a sweep of the array along the main scan direction, a travel of the array in the sub-scan direction is not more than the [a] length of the array in the sub-scan direction;
a main scan sensor for sensing sweeping of the array along the main scan direction; and
a controller coupled to the sub-scan module and the main scan sensor, for controlling dithering of the array in response to the sensed sweeping of the array along the main scan direction.

2. (Original): The apparatus of claim 1 wherein the optical module comprises:
a fiber coupled laser diode.

3. (Original): The apparatus of claim 1 wherein the optical module comprises:
a fiber laser.

4. (Original): The apparatus of claim 1 wherein the optical module comprises:
a laser for generating a laser beam; and
optics coupled to the laser for generating the array of light beams from the laser beam.

5. (Original): The apparatus of claim 1 wherein the optical module comprises:

a plurality of light sources; and
optics coupled to the light sources for generating the array of light beams from the
plurality of light sources.

6. (Original): The apparatus of claim 1 wherein the optical module comprises:
an optical input port for receiving one or more input light beams from an external source;
and
optics coupled to the optical input port for generating the array of light beams from the
received input light beams.
7. (Original): The apparatus of claim 6 wherein the optical input port comprises an optical fiber.
8. (Original): The apparatus of claim 1 wherein the optical module generates all of the light
beams simultaneously.
9. (Original): The apparatus of claim 1 wherein the optical module generates the light beams
sequentially in time.
10. (Original): The apparatus of claim 1 wherein the sub-scan module comprises:
a movable carriage that can be translated in the sub-scan direction.
11. (Original): The apparatus of claim 1 wherein the sub-scan module comprises:
a light deflecting module configured to deflect one or more of the light beams.
12. (Currently amended): The apparatus of claim 1 wherein the array of light beams is a
rectangular array of light beams with N rows in the sub-scan direction, and N is an integer greater
than 1.
13. (Original): The apparatus of claim 12 wherein $N > 2$.

14. (Original): The apparatus of claim 13 wherein the travel in the sub-scan direction is not more than a row-to-row spacing in the sub-scan direction.
15. (Currently amended): The apparatus of claim 1 wherein the array of light beams is a 1xN array of light beams, and N is an integer greater than 1.
16. (Currently amended): The apparatus of claim 1 wherein the array of light beams has a total array length of about 1 cm in the sub-scan direction.
17. (Original): The apparatus of claim 1 wherein the sub-scan direction is perpendicular to the main scan direction.
18. (Original): The apparatus of claim 1 wherein the travel of the array in the sub-scan direction is less than one half of the length of the array in the sub-scan direction.
19. (Original): The apparatus of claim 1 further comprising:
a main scan module coupled to the optical module for automatically sweeping the array of light beams along the main scan direction.
20. (Currently amended): The apparatus of claim 1 wherein the [further comprising: a] controller adjusts [for adjusting] a location and/or an exposure of the light beams to generate the pattern of spots.
21. (Original): The apparatus of claim 20 wherein the pattern of spots produces fractional phototherapy of the treatment area.
22. (Original): The apparatus of claim 20 wherein the pattern of spots is an irregular pattern of spots.
- 23-24. (Cancelled)

25. (Currently amended): A method for generating a pattern of spots over a treatment area, comprising:

generating an array of light beams, wherein the array is elongated along a sub-scan direction;

sweeping the array of light beams along a main scan direction that is transverse to the sub-scan direction; and

for a sweep of the array along the main scan direction, automatically dithering the array in the sub-scan direction, wherein a travel of the array in the sub-scan direction is not more than a length of the array in the sub-scan direction and the sweeping along the main scan direction and the dithering in the sub-scan direction generate the pattern of spot, and the step of automatically dithering the array of light beams in the sub-scan direction comprises:

sensing sweeping of the array along the main scan direction; and

controlling dithering of the array in response to the sensed sweeping of the array along the main scan direction.

26. (Original): The method of claim 25 wherein the step of generating an array of light beams comprises:

generating all of the light beams simultaneously.

27. (Original): The method of claim 25 wherein the step of generating an array of light beams comprises:

generating the light beams sequentially in time.

28. (Currently amended): The method of claim 25 wherein the array of light beams is a rectangular array of light beams with N rows in the sub-scan direction, and N is an integer greater than 1.

29. (Original): The method of claim 28 wherein the travel in the sub-scan direction is not more than a row-to-row spacing in the sub-scan direction.

30. (Original): The method of claim 25 wherein the step of sweeping the array of light beams along a main scan direction comprises:

automatically sweeping the array of light beams along the main scan direction.

31. (Original): The method of claim 25 wherein the step of sweeping the array of light beams along a main scan direction comprises:

manually sweeping the array of light beams along the main scan direction.

32. (Original): The method of claim 25 further comprising:

adjusting an exposure of the light beams in the array.

33. (Original): The method of claim 25 wherein the pattern of spots produces fractional phototherapy of the treatment area.

34. (Original): The method of claim 25 wherein the pattern of spots is an irregular pattern of spots.

35. (Cancelled)

36. (New): The method of claim 25 wherein the step of controlling dithering of the array comprises:

controlling a placement of the light beams in the sub-scan direction in response to the sensed sweeping of the array along the main scan direction.

37. (New): The method of claim 25 wherein the step of controlling dithering of the array comprises:

controlling an intensity of the light beams in response to the sensed sweeping of the array along the main scan direction.

38. (New): The method of claim 25 wherein the step of controlling dithering of the array comprises:

controlling a duration of the light beams in response to the sensed sweeping of the array along the main scan direction.

39. (New): The method of claim 25 wherein the step of controlling dithering of the array comprises:

controlling turning the light beams on or off in response to the sensed sweeping of the array along the main scan direction.

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